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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,589	02/11/2004	Andre Stojc	WAB 04024	4945

7590 08/25/2004

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EXAMINER

BOSWELL, CHRISTOPHER J

ART UNIT	PAPER NUMBER
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3676

DATE MAILED: 08/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/777,589

Applicant(s)

STOJC, ANDRE

Examiner

Christopher Boswell

Art Unit

3676

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 11-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Specification*

The disclosure is objected to because of the following informalities: in the CROSS-REFERENCE TO RELATED APPLICATIONS section the patent number needs to be filled in.

Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 11-16, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S.

Patent Number 6,446,389 to Heffner et al.

Heffner discloses a locking device disposed within a door operator of a passenger transit vehicle door system a lock bar (80) disposed within the door hanger, the lock bar having a at least one locking cavity (18), a lock shaft (15) disposed within the locking device, a lock actuator (22) rotatably attached to the lock shaft for enabling rotation of the lock shaft, a lock lever (15L and 15R) attached to the lock shaft for engagement with the locking cavity for maintaining the door hanger in a fully locked position, the lock lever movable into an unlock position enabled by the lock actuator, a lock latch mechanism (30) disposed within a door lock mechanism of a passenger transit door system (10) for maintaining an unlocking lever in an unlock position, and

Art Unit: 3676

a manual release lever (47) connected to the lock shaft for rotating the lock shaft into an unlock position upon manual actuation, the manual release lever further rotating the lock lever from such lock position into such unlock position, as in claim 11.

Heffner also discloses the lock latch mechanism that enables removal of power from the lock actuator upon rotation of the lock lever from such Lock position into such unlock position, as in claim 12, as well as the lock latch mechanism enables removal of power from the lock actuator prior to enabling a prime mover disposed within the door operator for opening a first door attached to the door hanger (column 5, lines 15-17), as in claim 13, as well as the lock lever being mounted about the lock shaft so that gravity tends to move it into such locking position (column 6, lines 15-21), as in claim 14, and where the actuator is a solenoid (column 5, lines 31-32), as in claim 15, wherein the solenoid is a non-continuous duty type providing more power to move the lock lever from such lock position into such unlock position (column 5, lines 31-37), as in claim 16.

Heffner additionally discloses a locking device disposed within a door operator of a passenger transit vehicle door system having a lock shaft (15) disposed within said locking device, a lock lever (15L and 15R) pivotally attached to said lock shaft, a first lock bar (80L) disposed within said door hanger, said first lock bar having a cavity (18) for engagement with said lock lever, a second lock bar (80R) disposed within said door hanger, said second lock bar having a cavity for engagement with said lock lever, a lock actuator (22) pivotally attached to said lock shaft for enabling said lock lever to move from such locking position to such unlocking position, a lock latch mechanism (30) disposed within said locking device of a passenger transit door system (10) for maintaining an unlock lever in such unlock position, and a manual release

Art Unit: 3676

lever (47) connected to said lock shaft for rotating said lock shaft into an unlock position upon manual actuation and for rotating said lock lever from such lock position into such unlock position, as in claim 19.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heffner, as applied above, in view of U.S. Patent Number 4,198,786 to Monot.

Heffner discloses the invention substantially as claimed. Heffner discloses an actuator used to enabling the lock lever to move from a locking position to unlocking position. However, Heffner does not disclose the actuator being either a pneumatic or hydraulic cylinder. Monot teaches that electro-magnetic, hydraulic and pneumatic actuators are art recognized equivalents (column 1, lines 17-23) in the same field of endeavor for the purpose of displacing a locking bolt in sliding doors for public transportation vehicles. Inasmuch as the references disclose these elements as art recognized equivalents, it would have been obvious to one of ordinary skill in the exercise art to substitute one for the other. In re Fout, 675 F.2d 297, 301, 213 USPQ 532, 536 (CCPA 1982).

Art Unit: 3676

*Conclusion*

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to locking devices for sliding doors:


U.S. Patent Number 6,009,668 to Reddy, U.S. Patent Number 5,299,385 to McConnell, U.S. Patent Number 4,934,488 to Umemura, U.S. Patent Number 4,91,474 to Bayard et al., U.S. Patent Number 4,897,959 to Worden, U.S. Patent Number 4,142,326 to Schmitz, U.S. Patent Number 3,455,58 to Hewitt.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Boswell whose telephone number is (703) 305-4067. The examiner can normally be reached on 8:30 - 5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on (703) 308-2686. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



CJB   
August 18, 2004

DANIEL P. STODOLA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3600